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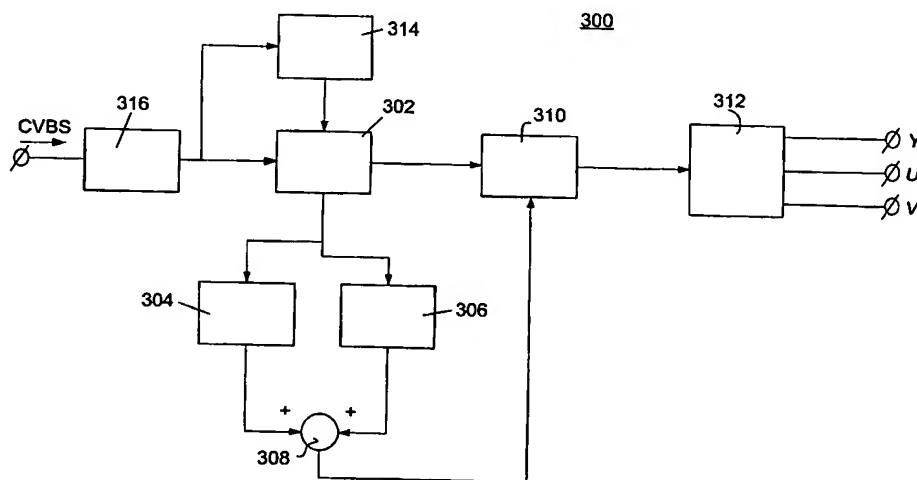
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(54) Title: **LUMINANCE AND COLOR SEPARATION**



(57) Abstract: A luminance and color separation filter unit (300) for extracting a luminance signal (Y) and two color signals (U, V) from a composite color television signal (CVBS). The filter unit (300) comprises: acquisition means (302) to acquire a first sample of the composite color television signal, corresponding to a first pixel and other samples, corresponding to other pixels in a neighborhood of the first pixel; correlation estimation means (304) to estimate a first set of correlation values representing correlations between the first sample and the respective other samples; penalty estimation means (306) to estimate a second set of penalty values representing relations between the first sample and the respective other samples; computing means (308) to compute a third set of combined values by means of combining respective elements of the first set and the second set; selection means (310) to select a particular sample of the composite color television signal on basis of the corresponding combined value; and decoding means (312) to determine a final luminance value and two color values corresponding to the first pixel, on basis of the first sample and the particular sample.



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